

In the Claims:

1. (currently amended) A transceiver system for use in a telecommunication system, said transceiver system comprising:
- a transmission circuit including a transmitter input coupled to an input of a transmission amplifier;
 - a receiver circuit including a receiver output coupled to an output of a receiver amplifier; and
 - a transmission line interface circuit coupled to an output of said transmission amplifier and to an input of said receiver amplifier, said transmission line interface circuit including a matching impedance and first and second primary transformer windings such that said matching impedance [that] is [directly] coupled to a [feedback-path] first output of said transmission amplifier via said first primary transformer winding at one end of said matching impedance and is coupled to a second output of said transmission amplifier via said second primary transformer winding at a second end of said matching impedance, and that terminates the transmission line of said transceiver system.
2. (currently amended) The system as claimed in claim 1, wherein said transmission line interface circuit further includes a secondary transformer winding [a primary transformer winding that is connected in series with the output of the transmission amplifier].
3. (original) The system as claimed in claim 1, wherein said transmission circuit provides a first order high pass filter function.

4. (currently amended) A transceiver system for use in a telecommunication system, said transceiver system comprising:

a transmission circuit including a differential transmitter input coupled to a differential input of a transmission amplifier;

a receiver circuit including a differential receiver output coupled to a differential output of a receiver amplifier; and

a transmission line interface circuit coupled to a differential output of said transmission amplifier and to a differential input of said receiver amplifier, said transmission line interface circuit including a single impedance matching network that terminates the transmission line of said transceiver system and is coupled at either end thereof to said differential output of said transmission amplifier via two primary transformer windings.

5. (currently amended) The system as claimed in claim 4, wherein said ~~[transmission line interface circuit includes]~~ two primary transformer windings are each directly coupled to an output of said transmission amplifier and are each directly coupled to said matching impedance ~~[, each of which is connected in series with one [each] path in the differential output of the transmission amplifier].~~

6. (original) The system as claimed in claim 4, wherein said transmission circuit provides a first order high pass filter function.

7 (currently amended) A line driver circuit for use in a transceiver system, said circuit comprising a transmission line interface circuit that is coupled to an output of a transmission amplifier and to an input of a receiver amplifier, said transmission line interface including a single impedance matching network that terminates a transmission line of the transceiver system and is interposed in series between a first primary transformer winding and a second primary transformer winding.

8. (currently amended) A transceiver system for use in a telecommunication system, said transceiver system comprising:

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a transmission circuit including a differential transmitter input coupled to a differential input of a transmission amplifier;

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a receiver circuit including a differential receiver output coupled to a differential output of a receiver amplifier; and

a transmission line interface circuit coupled to a differential output of said transmission amplifier and to an differential input of said receiver amplifier, said transmission line interface circuit including a matching impedance that is [directly] coupled to a first negative feedback path of said transmission amplifier and a pair of primary transformer windings, each of which is coupled to said matching impedance and to an output of said transmission amplifier, and that terminates the transmission line of said transceiver system.

9. (currently amended) The transceiver system as claimed in claim 8, wherein [said transmission circuit includes a dual negative feedback network] transceiver system

further includes a second negative feedback path for said transmission amplifier.

10. (currently amended) The transceiver system as claimed in claim 8, wherein said transceiver system provides a dual negative feedback network that increases a relatively small impedance of the matching network to a larger [~~line driver~~] output impedance to match the characteristic impedance of the transmission line of said transceiver system.

[Please add new claims 11 - 20 as follows:]

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11. (new) The system as claimed in claim 1, wherein said first primary transformer winding is directly coupled to said first output of said transmission amplifier and is directly coupled to said matching impedance, and said second primary transformer winding is directed to said second output of said transmission amplifier and is directly coupled to said matching impedance.

12. (new) The system as claimed in claim 1, wherein said transceiver system includes a first pair of negative feedback paths to said transmission amplifier and a second pair of negative feedback paths to said transmission amplifier.

13. (new) The system as claimed in claim 12, wherein said first negative feedback path extends from a first side of each of said first and second primary transformer windings to the inputs of said transmission amplifier, and said second negative feedback

path extends from a second side of each of said first and second primary transformer windings to the inputs of said transmission amplifier.

14. (new) The system as claimed in claim 4, wherein said transceiver system includes a first pair of negative feedback paths to said transmission amplifier and a second pair of negative feedback paths to said transmission amplifier.

15. (new) The system as claimed in claim 14, wherein said first negative feedback path extends from a first side of each of said first and second primary transformer windings to the inputs of said transmission amplifier, and said second negative feedback path extends from a second side of each of said first and second primary transformer windings to the inputs of said transmission amplifier.

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cont 16. (new) The system as claimed in claim 4, wherein said transmission line interface circuit further includes a secondary transformer winding.

17. (new) The system as claimed in claim 7, wherein said transceiver system includes a first pair of negative feedback paths to said transmission amplifier and a second pair of negative feedback paths to said transmission amplifier.

18. (new) The system as claimed in claim 17, wherein said first negative feedback path extends from a first side of each of said first and second primary transformer windings to the inputs of said transmission amplifier, and said second negative feedback

path extends from a second side of each of said first and second primary transformer windings to the inputs of said transmission amplifier.

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19. (new) The system as claimed in claim 7, wherein said transmission line interface circuit further includes a secondary transformer winding.

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20. (new) The system as claimed in claim 8, wherein said transmission line interface circuit further includes a secondary transformer winding.
